

What is claimed is:

1. A laser printer comprising a laser scanning unit,
wherein the laser scanning unit comprises:

a frame body;

5 a semiconductor laser for emitting a laser beam, the
semiconductor laser being installed inside the frame body;

a semiconductor laser drive circuit for controlling the
driving of the semiconductor laser;

10 a polygon mirror for causing the laser beam to scan on
a photosensitive drum;

a motor for rotating the polygon mirror, the motor being
placed inside the frame body and having the polygon mirror mounted;

a motor drive circuit for controlling the driving of the
motor;

15 a synchronizing signal detecting circuit having a photodiode
for detecting a scan start position of the laser beam; and

a first circuit board on which the synchronizing signal
detecting circuit is packaged;

20 one second circuit board made of paper phenol without heat
radiation function for packaging two circuits of the
semiconductor laser drive circuit and the motor drive circuit,
the second circuit board being provided outside the frame body;

a motor mounting member only having a motor mounting
function;

25 a first flexible cable for connecting the second circuit

board provided outside the frame body and the motor placed inside the frame body; and

a second flexible cable for connecting the second circuit board provided outside the frame body and the semiconductor laser installed inside the frame body;

wherein the semiconductor laser is mounted inside the frame body to be angularly adjustable by itself; and

wherein the motor is mounted inside the frame body via the motor mounting member.

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2. An image forming apparatus comprising a laser scanning unit, wherein the laser scanning unit comprises:

a frame body;

a semiconductor laser for emitting a laser beam, the semiconductor laser being installed inside the frame body;

a polygon mirror for causing the laser beam to scan on a photosensitive drum;

a motor for rotating the polygon mirror, the motor being placed inside the frame body and having the polygon mirror mounted;

20 and

a circuit board for packaging two circuits of a semiconductor laser drive circuit for controlling the driving of the semiconductor laser and a motor drive circuit for controlling the driving of the motor, the circuit board being provided in an area a predetermined distance apart from an area where the

motor is placed in the frame body.

3. The image forming apparatus according to claim 2, wherein
the circuit board comprises a circuit board made of paper phenol
5 without heat radiation function.

4. The image forming apparatus according to claim 2, further
comprising a motor mounting member only having a motor mounting
function, wherein the motor is mounted inside the frame body
10 via the motor mounting member.

5. The image forming apparatus according to claim 2, wherein
the semiconductor laser is mounted inside the frame body to
be angularly adjustable by itself.
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6. The image forming apparatus according to claim 2, further
comprising:

a first flexible cable for connecting the circuit board
provided outside the frame body and the motor placed inside
20 the frame body; and

a second flexible cable for connecting the circuit board
provided outside the frame body and the semiconductor laser
installed inside the frame body.

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